

FEM Chapter: 7**Technical Discipline:** Electrical**Section(s):** 201.2.3**Petitioner:** Barbara Hargis, ESH-5, 7-5231, for the Electrical Infrastructure/Safety Upgrades Project**Inquiry:** Must the EISU project upgrade all electrical systems covered by Chapter 7 for buildings in which over 50% of the value of the low-voltage distribution system is being upgraded by the project?**Existing wording:**

Bring existing electrical systems into compliance with requirements in current codes and this Chapter when renovation work includes major replacements, modifications, or rehabilitation that exceeds 50% of the estimated replacement value of the existing facility electrical system.

Clarification X **Interpretation**

Based on discussions with the Facility Engineering Manual Technical Review Board on 7/19/00 and with the concurrence of the Electrical Technical Committee, the Chapter 7 POC issues the following clarification:

Paragraph 201.2.3 will be modified in an upcoming revision of Chapter 7 to state that the paragraph applies on a system-by-system basis, and a list of typical building electrical systems will be provided.

Additional discussion:

In the case of EISU, Section 201.2.3 in Chapter 7 of the LANL Facility Engineering Manual will only apply to the low-voltage power system. Where major replacements, modifications, or rehabilitation of the low-voltage power distribution system exceeds 50% of the estimated replacement value of the existing system, the low-voltage power distribution system is required be brought to into compliance with requirements in current codes and Chapter 7. Other existing electrical systems (e.g. lighting system, fire alarm system, etc.) that have replacements, modifications, or rehabilitation of less than 50% of the estimated replacement value of the system, may remain in service.

Technical Committee POC: David Powell via e-mail **Date:** 8/15/00 **Distribution (via e-mail):****Petitioner:** Barbara Hargis**Standards Manager:** Tobin Oruch**FEM Webmaster:** Cindy Martinez

